BookletChart™

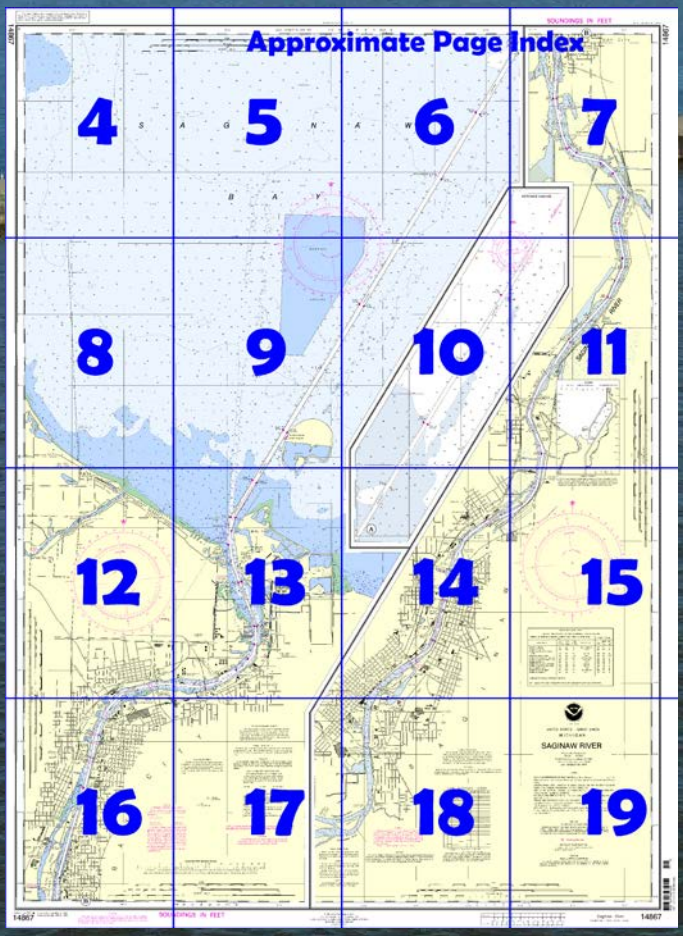
Saginaw River

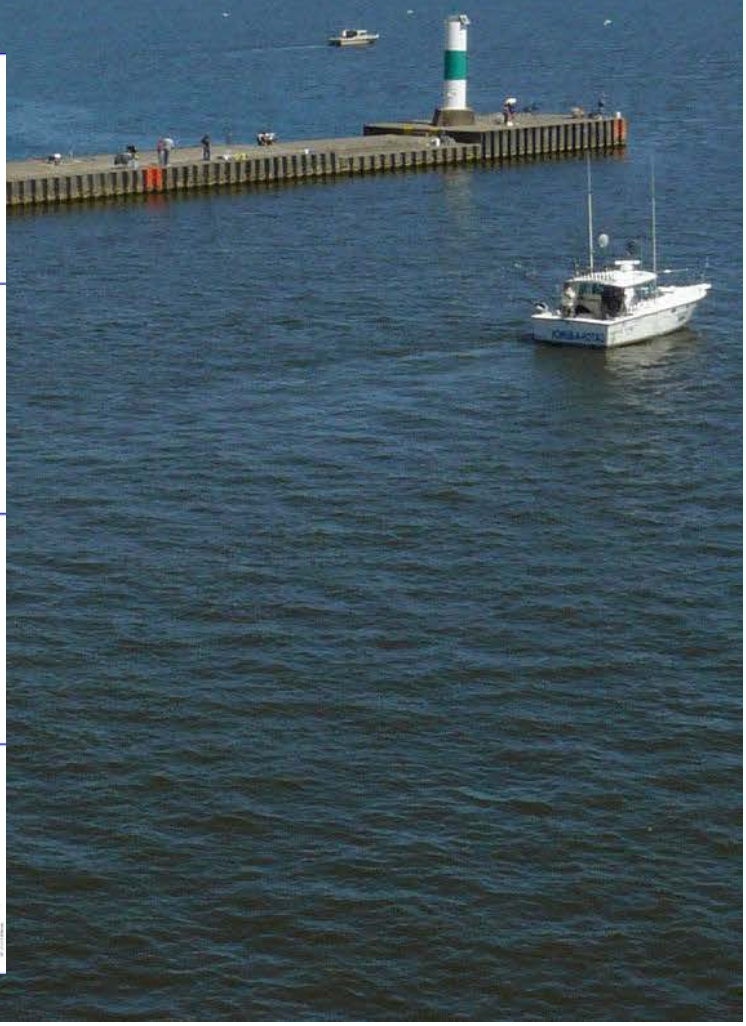
NOAA Chart 14867

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.

- *Complete, reduced-scale nautical chart*
- *Print at home for free*
- *Convenient size*
- *Up-to-date with Notices to Mariners*
- *Compiled by NOAA's Office of Coast Survey, the nation's chartmaker*





Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=14867.

(Selected Excerpts from Coast Pilot)
The **Saginaw River** is formed by the confluence of the Tittabawassee and Shiawassee Rivers at **Green Point** (43°23.1'N., 83°58.2'W.) at the S limit of the city of Saginaw. The river flows N for 22 miles and empties into the head of Saginaw Bay. The lower 18 miles of the river form a commercial harbor. Grain, chemicals, petroleum products, limestone, coal, sand, gravel, and cement are the major commodities handled at the ports of **Bay City, MI**, just above the river mouth, and **Saginaw, MI**, 19 miles above the river mouth. Other towns on the river are **Essexville, MI**, on the east side just above the mouth, and **Zilwaukee, MI**, and **Carrollton, MI**, on the west side just below Saginaw.

Channels.–A Federal project provides for a dredged entrance channel leading southwest from the deep water in Saginaw Bay for about 13.5 miles to the mouth of the Saginaw River and thence upstream for about 20 miles to the ports of Bay City and Saginaw. The entrance and river channels are well marked by lighted and unlighted buoys.

A **211°20'** lighted range marks the entrance channel, and a **160°** lighted range marks a reach in the lower part of the river.

The Federal project depths are 27 feet in the entrance channel to the mouth of the river, thence 26 feet through the mouth, thence 25 feet to the Canadian National Railroad bridge at Bay City, thence 22 feet to the CSX railroad bridge in Saginaw. Four turning basins in the river have project depths as follows: 25 feet at Essexville, 22 feet in Bay City opposite the airport, 20 feet at Carrollton, and 20 feet just below the CSX railroad bridge at Sixth Street in Saginaw. (See Notice to Mariners and latest editions of charts for controlling depths.)

A **slow-no wake speed** is enforced in the Saginaw River.

Above the Holland Avenue bridge in Saginaw depths in the river vary from 7 to 15 feet for about 2.8 miles to Green Point.

In 1977, it was reported that the **Tittabawassee River** was navigable by small boats for only about 1.5 miles above Green Point. Above that point stumps, sunken logs, and snags severely obstruct the river.

The **Shiawassee River,** near Green Point, has an available depth of 5 to 6 feet, and the crooked channel across Shiawassee Flats is 15 or 16 feet deep in many places. In 1977, numerous submerged pilings were reported at the mouth of the river in the vicinity of Green Point. Above the flats, the Shiawassee River is very narrow and crooked, but is navigable for small boats to the junction with **Bad River,** and thence the Bad River to the village of St. Charles, 13 miles from Green Point. A highway bridge with a 19-foot fixed span and a clearance of 8½ feet crosses Shiawassee River about 6.7 miles above the mouth.

The **Cass River** and **Flint River,** tributaries of the Shiawassee, are navigable by rowboats to a limited extent, being greatly obstructed by sunken logs and snags.

An irregularly shaped diked disposal area is on the east side of the entrance channel to the Saginaw River about 1 mile northeast of the mouth.

The former dredged approach to the Saginaw River leads N from the mouth to deep water in Saginaw Bay. The channel, with a least depth of about 13, is unmarked and no longer maintained.

Quarantine, customs, immigration, and agricultural quarantine.–(See chapter 3, Vessel Arrival Inspections, and appendix for addresses.)

Quarantine is enforced in accordance with the regulations of the U.S. Public Health Service. (See Public Health Service, chapter 1.)

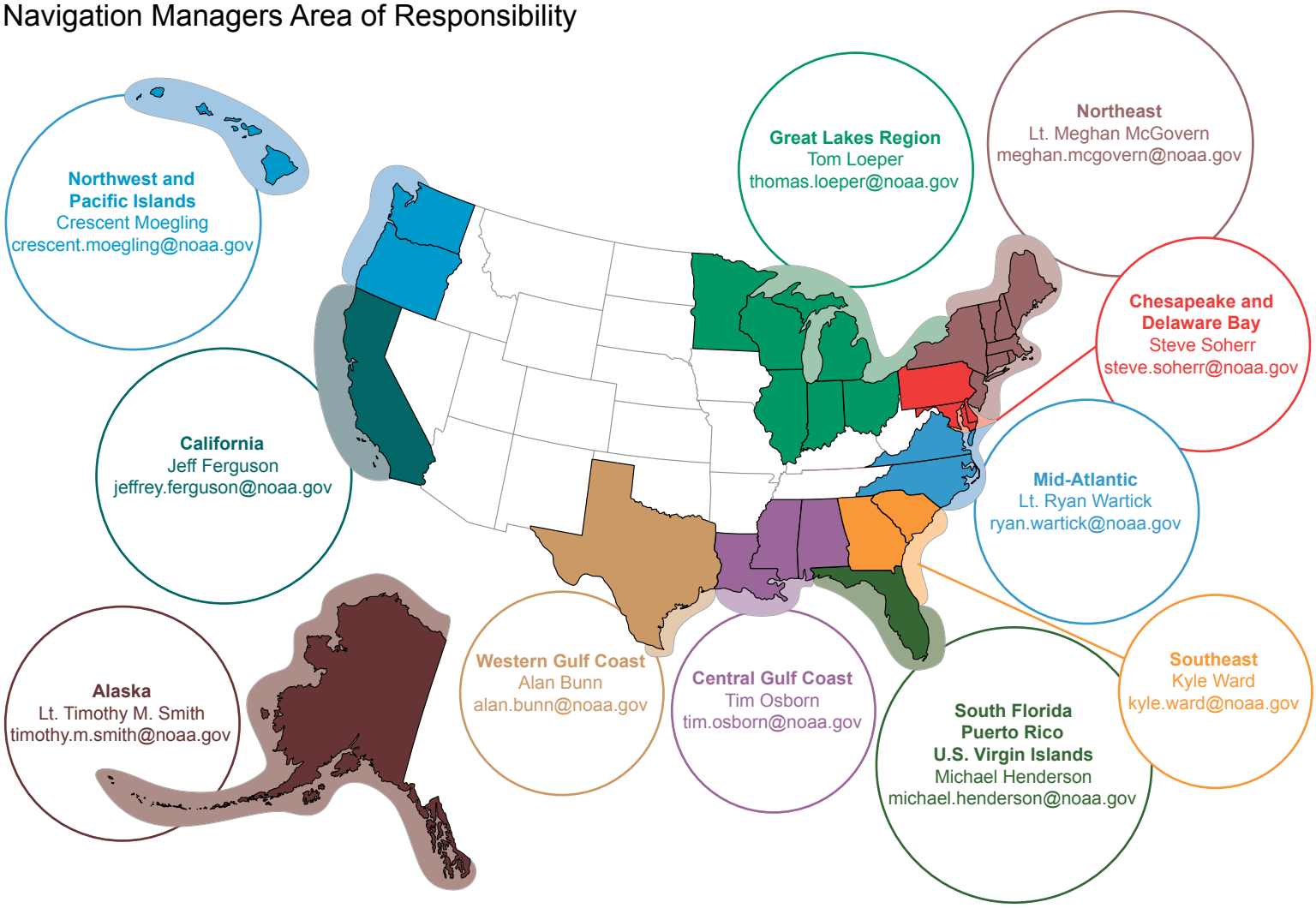
Saginaw-Bay City is a **customs port of entry.**

The **Kawkawlin River,** emptying into Saginaw Bay about 2 miles northwest of the mouth of the Saginaw River, is entered by a dredged channel that leads just inside the mouth. In 1998, the controlling depth was 2½ feet (4½ feet midchannel) to the mouth of the river. Continually changing conditions have been reported at the mouth and the approach channel is marked by buoys that are shifted to mark the best water. An overhead power cable with a clearance of 51 feet crosses the river about 0.3 mile above the entrance. In 1989, bridge ruins were reported about 0.7 mile above the entrance. A fixed highway bridge 0.2 mile further upstream has a reported clearance of 10 feet. A **slow-no wake speed** is enforced on the river.

U.S. Coast Guard Rescue Coordination Center
24 hour Regional Contact for Emergencies

RCC Cleveland	Commander 9th CG District Cleveland, OH	(216) 902-6117

Navigation Managers Area of Responsibility

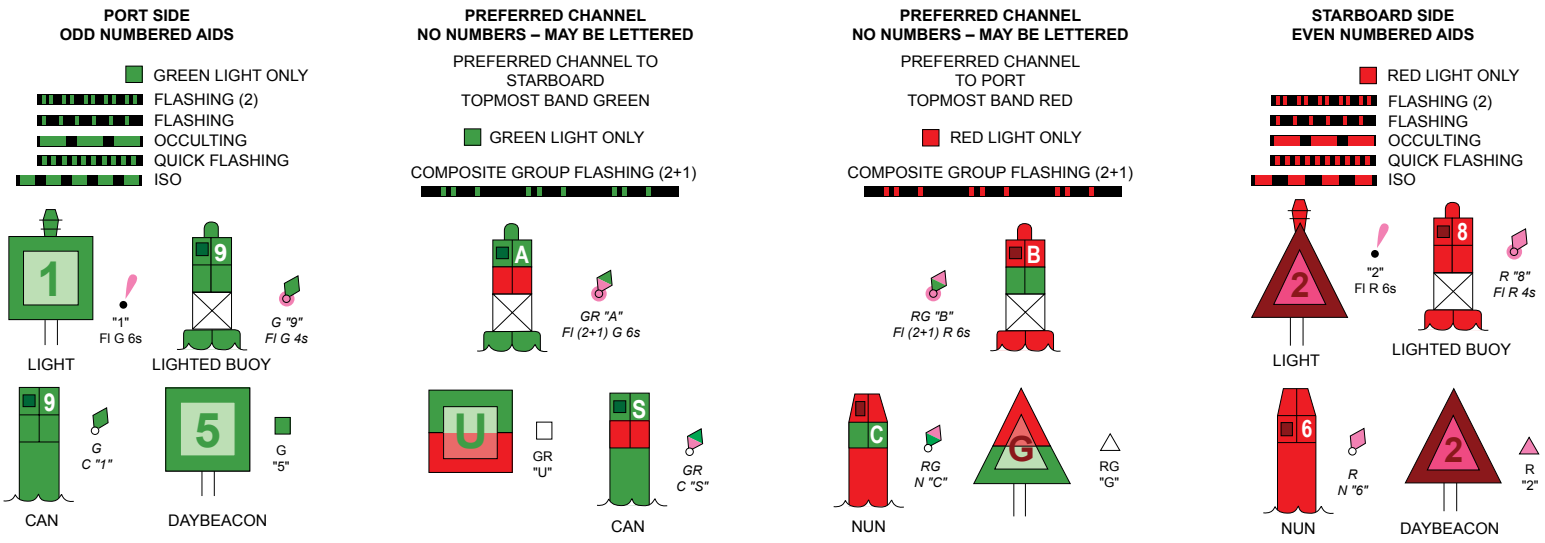


NOAA's navigation managers serve as ambassadors to the maritime community. They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit *nauticalcharts.noaa.gov/service/navmanagers*

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*.
To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at *http://www.navcen.uscg.gov*

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

14867

54'

53'

83°52'

43°
45'

44'

43'

Subm net stakes

S Cy

S

A

NO-DISCHARGE ZONE
(see note Z)

PWI
Depth over crib 11 feet

Joins page 8

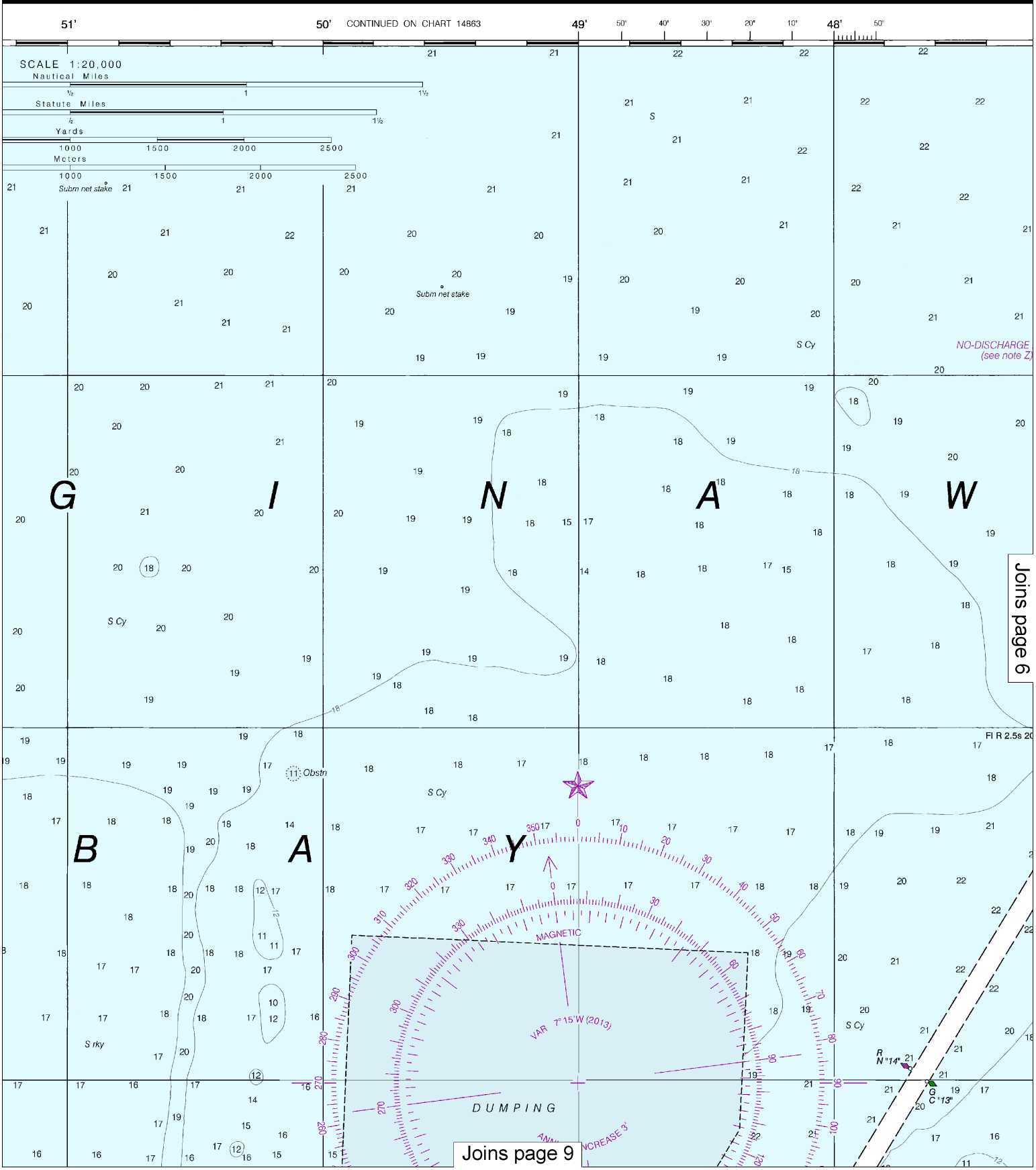
4

Note: Chart grid lines are aligned with true north.

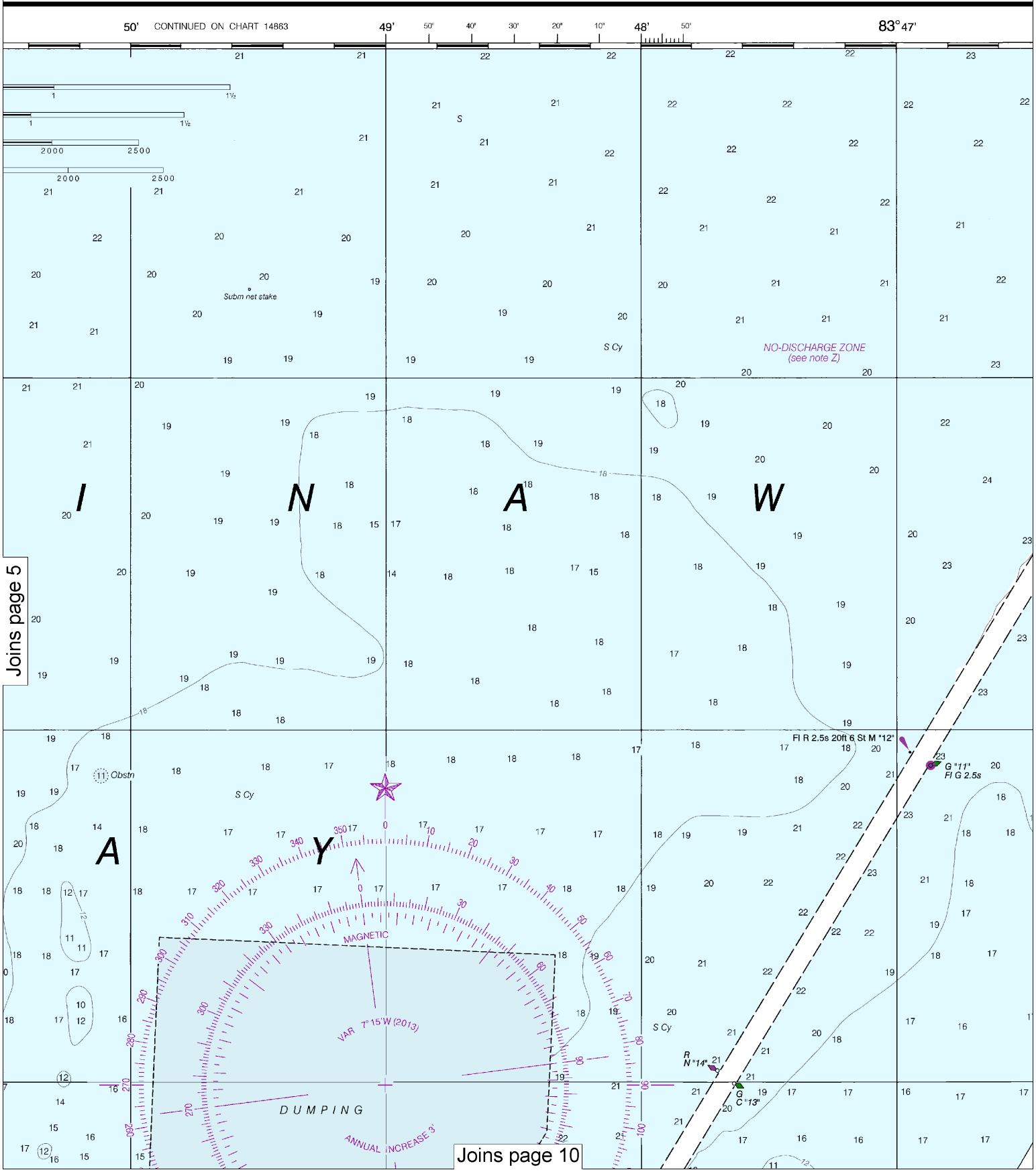
Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles
0 1 1½

Yards
500 0 500 1000 1500 2000 2500



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:26666. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



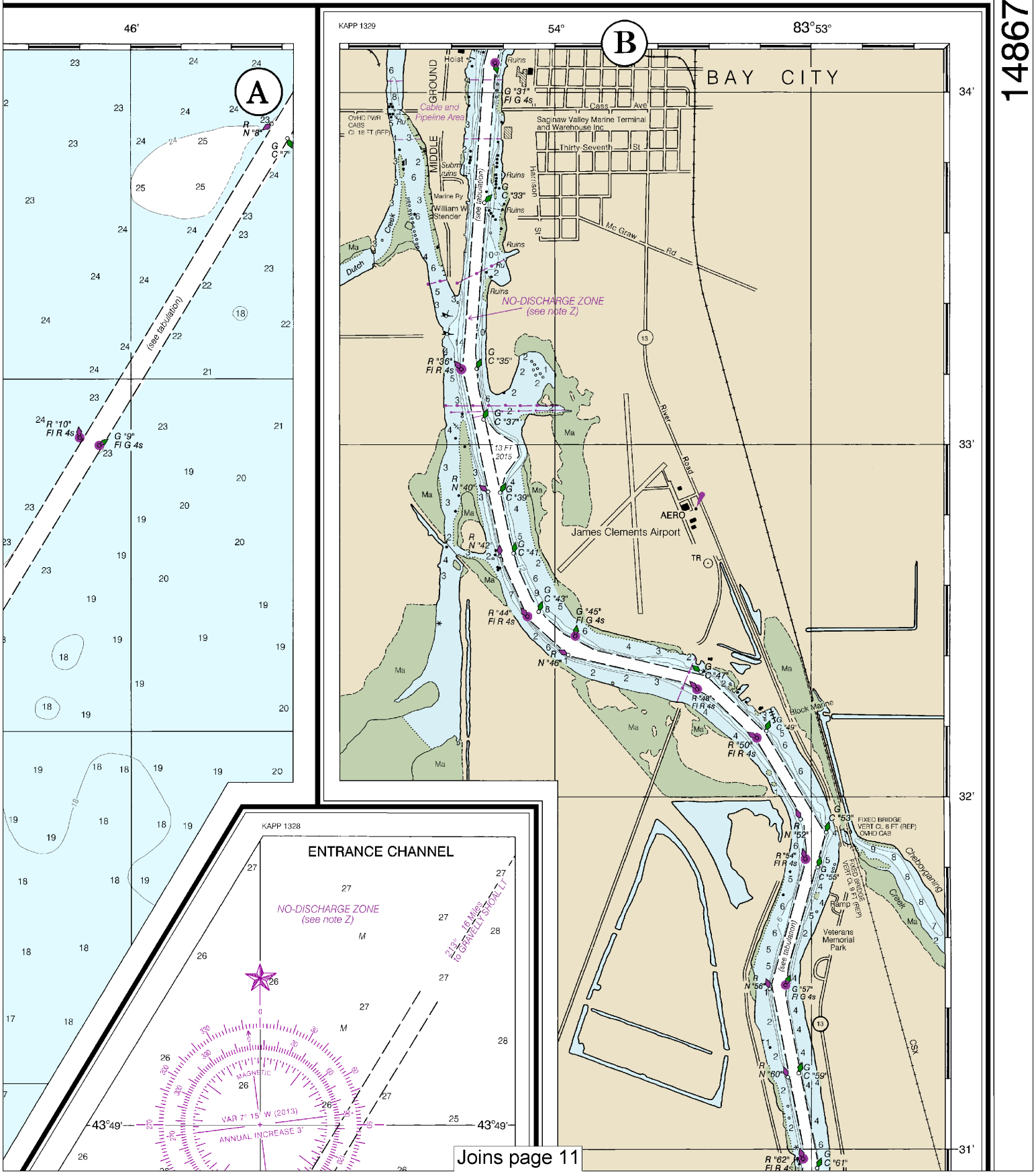
Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0, 1, 1½

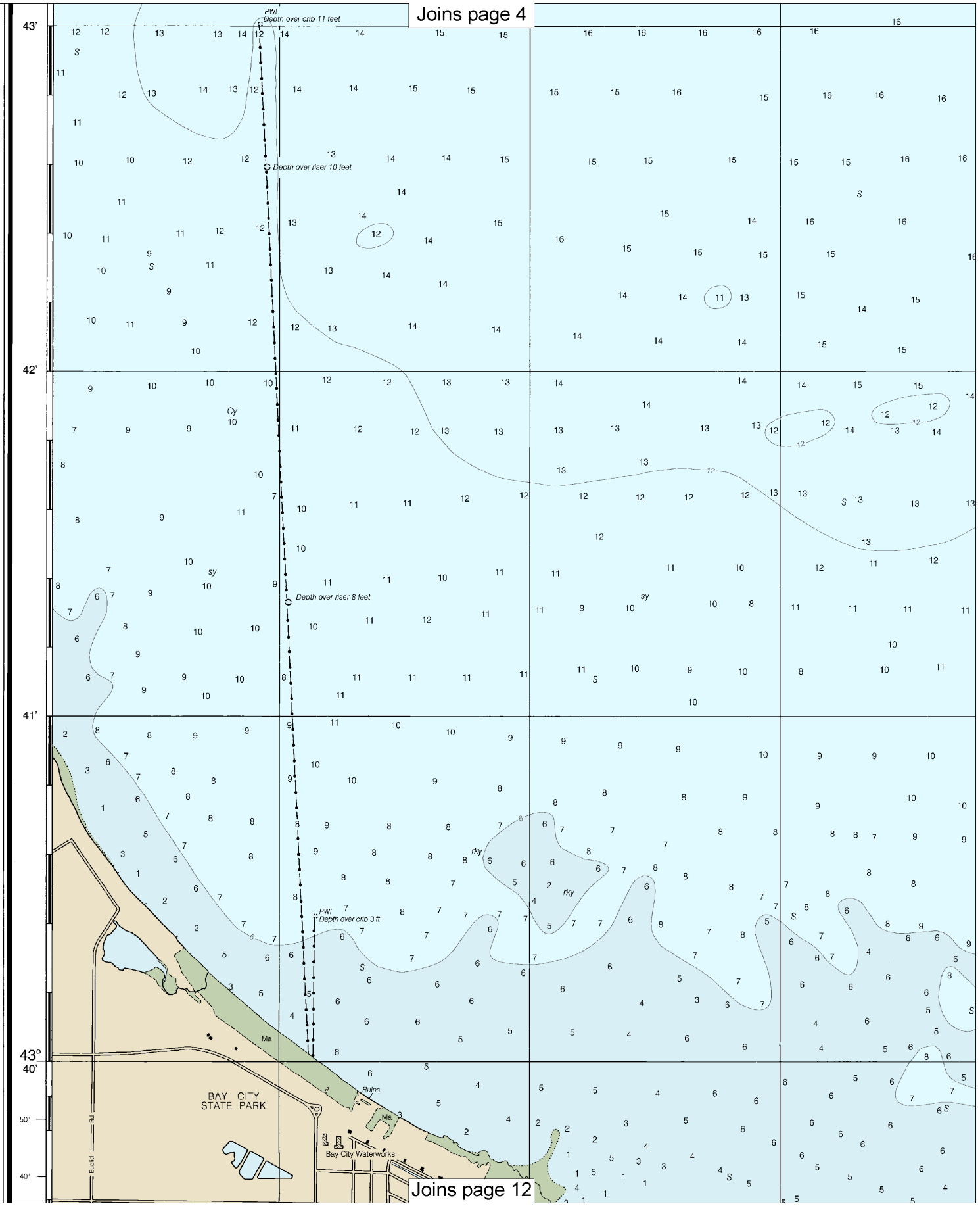
Yards: 500, 0, 500, 1000, 1500, 2000, 2500

Note: Chart grid lines are aligned with true north.

14867



Last Correction: 1/28/2016. Cleared through:
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)



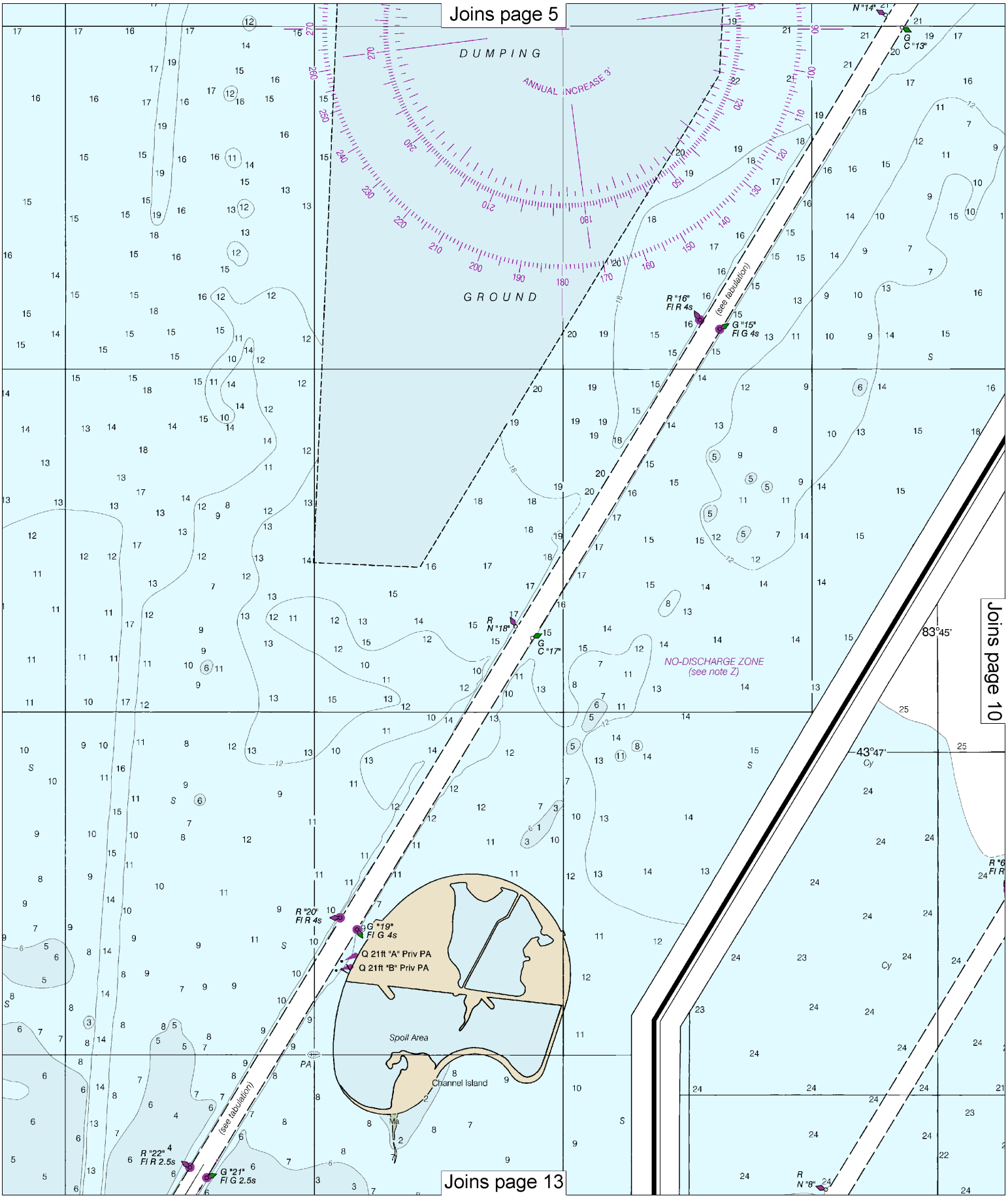
8

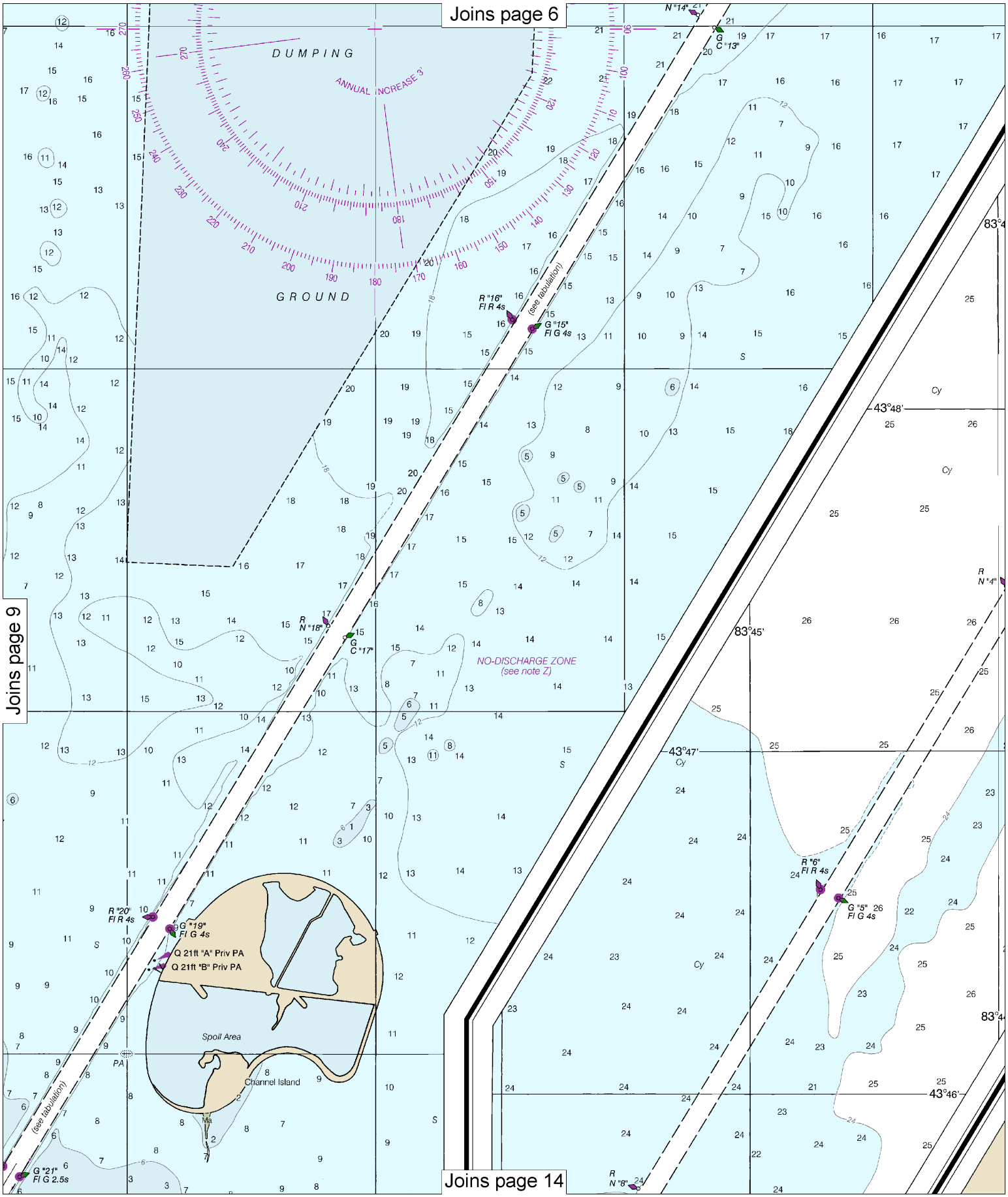
Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles
0 1 1½

Yards
500 0 500 1000 1500 2000 2500


Joins page 5
DUMPING
ANNUAL INCREASE 3'
GROUND
R "16" Fl R 4s
(see tabulation)
G "15" Fl G 4s
N "14"
G "13"
R N "18"
G "17"
NO-DISCHARGE ZONE
(see note Z)
83°45'
Joins page 10
43°47'
Cy
R "20" Fl R 4s
G "19" Fl G 4s
Q 21ft "A" Priv PA
Q 21ft "B" Priv PA
Spoil Area
Channel Island
PA
(see tabulation)
R "22" Fl R 2.5s
G "21" Fl G 2.5s
R N "8"
Joins page 13

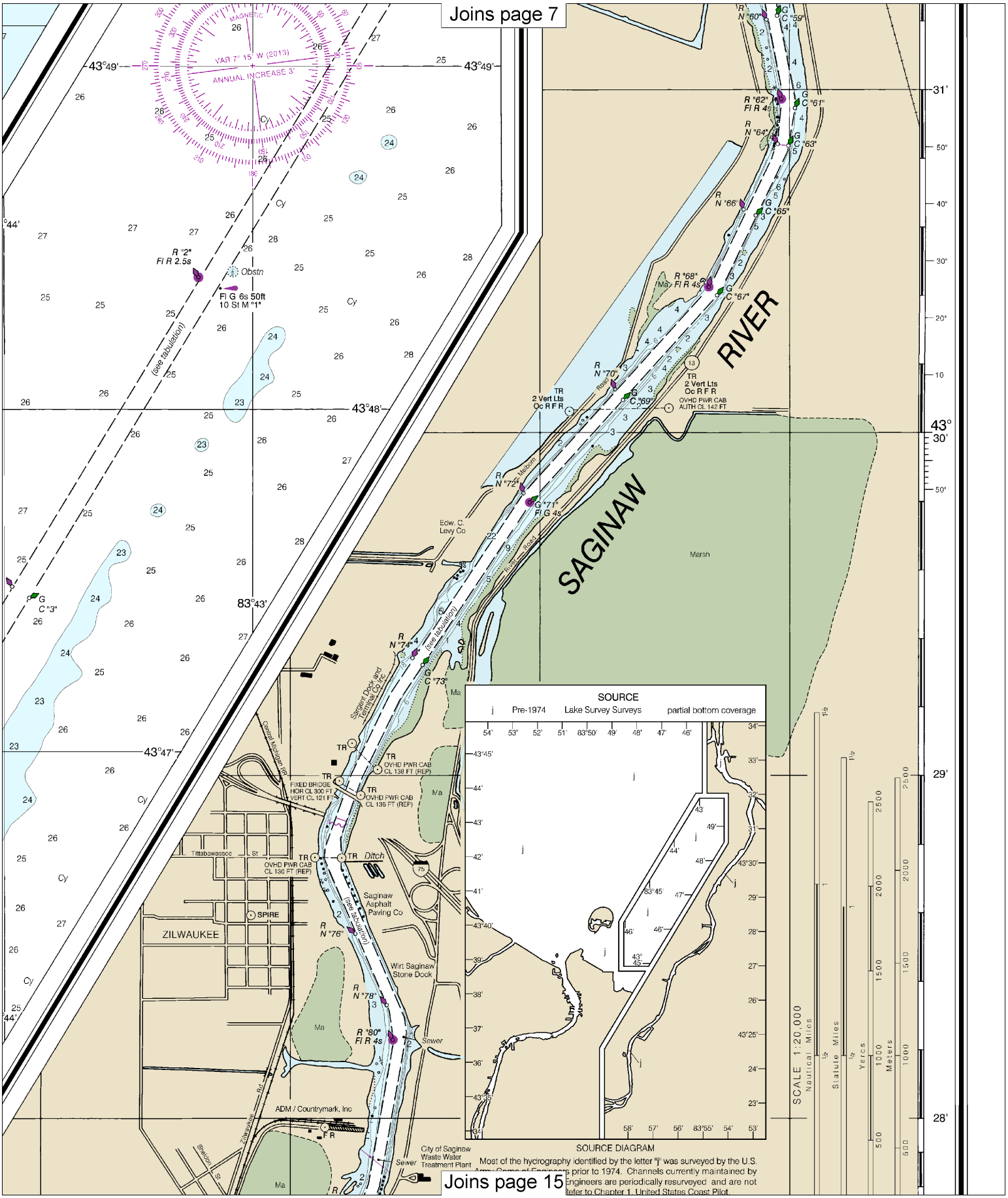


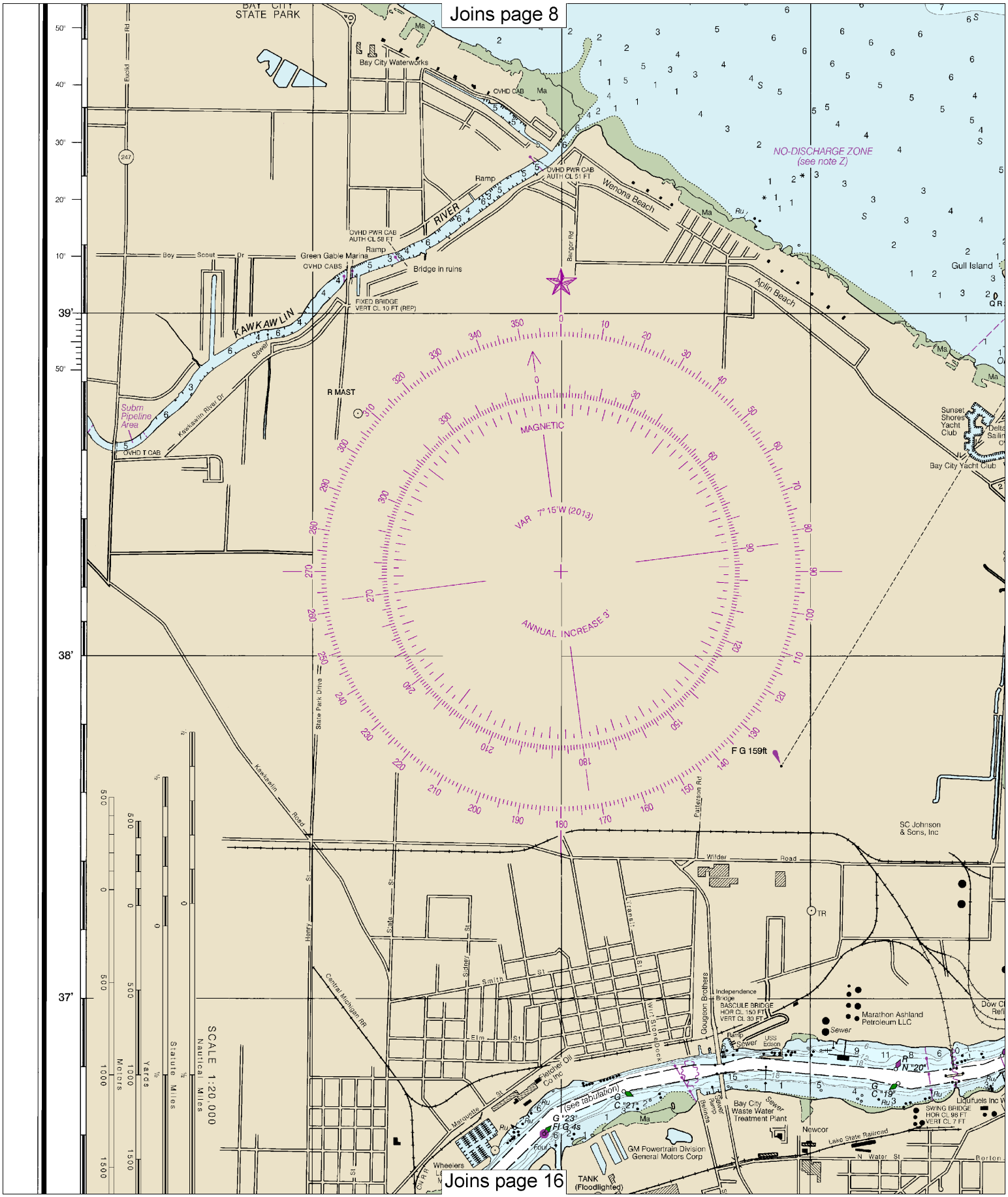
Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1 ½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500


Joins page 7
MAGNETIC
VAR 7° 15' W (2013)
ANNUAL INCREASE 3'
43°49'
43°48'
43°47'
43°44'
83°43'
R "2"
Fl R 2.5s
Obstn
Fl G 6s 50ft
10 St M "1"
(see tabulation)
R "60"
G C "59"
R "62"
Fl R 4s
G C "61"
R "64"
G C "63"
R "66"
G C "65"
R "68"
Fl R 4s
G C "67"
R "70"
G C "69"
TR
2 Vert Lts
Oc R F R
TR
2 Vert Lts
Oc R F R
OVHD PWR CAB
AUTH CL 142 FT
RIVER
SAGINAW
R "72"
G "71"
Fl G 4s
Melcom
Ecw. C.
Levy Co
Marsh
R "74"
G C "73"
Sargent Dock and
Terminal Co Inc
Central Michigan RR
TR
OVHD PWR CAB
CL 138 FT (REP)
TR
FIXED BRIDGE
HOR CL 300 FT
VERT CL 121 FT
TR
OVHD PWR CAB
CL 135 FT (REP)
Tittabawassee St
TR
OVHD PWR CAB
CL 130 FT (REP)
TR Ditch
SPIRE
ZILWAUKEE
Saginaw
Asphalt
Paving Co
R
N "76"
Wirt Saginaw
Stone Dock
R
N "78"
R "80"
Fl R 4s
Sewer
ADM / Countrymark, Inc
FR
Zilwaukee Rd
Shelton St
City of Saginaw
Waste Water
Treatment Plant
Sewer
SOURCE
j Pre-1974 Lake Survey Surveys partial bottom coverage
SOURCE DIAGRAM
Most of the hydrography identified by the letter "j" was surveyed by the U.S.
Army Corps of Engineers prior to 1974. Channels currently maintained by
the Corps of Engineers are periodically resurveyed and are not
reliable. Refer to Chapter 1, United States Coast Pilot.
SCALE 1:20,000
Nautical Miles
Statute Miles
Yards
Meters
Joins page 15



12

Note: Chart grid lines are aligned with true north.

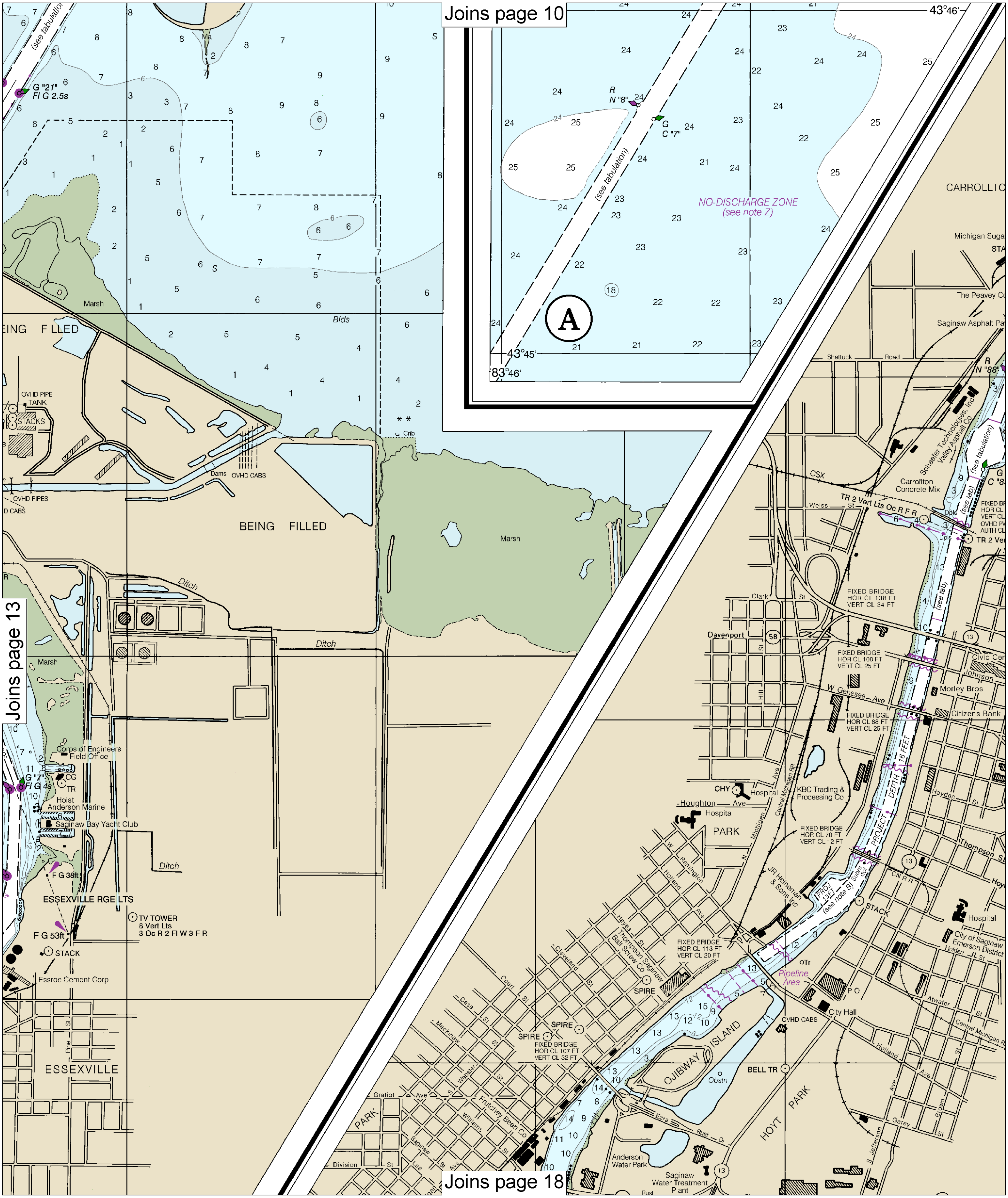
Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1 ½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500


Joins page 9
Joins page 14
Joins page 17
A
NO-DISCHARGE ZONE
(see note Z)
43°45'
83°46'
BEING FILLED
BEING FILLED
Marsh
Marsh
Marsh
Marsh
Marsh
Ditch
Ditch
Ditch
Pipeline Area
OVHD PWR CAB
CL 125 FT (REP)
TR F R
R "4"
Fl R 4s
G "3"
Fl G 4s
(see tabulation)
R "6"
G "5"
R "8"
Fl R 4s
G "7"
Fl G 4s
TR
Corps of Engineers
Field Office
CG
Hoist
Anderson Marine
Saginaw Bay Yacht Club
Bay Harbor
Marina
Ramp
R "10"
Fl R 4s
NO-DISCHARGE ZONE
(see note Z)
F G 38ft
ESSEXVILLE RGE LTS
TV TOWER
8 Vert Lts
3 Oc R 2 Fl W 3 F R
R "12"
Fl R 2.5s
F G 53ft
STACK
R "14"
Essroc Cement Corp
R "16"
Fl R 4s
Chemical
Refining
Ramp
Carrollton Paving Co
(see tabulation)
R "18"
Sand & Stone Inc
Conveyor
Woodside
Ave
Wharf
ESSEXVILLE
R "22"
Fl R 2.5s
G "21"
Fl G 2.5s
(see tabulation)
RANGE 211½
R "24"
Fl R 2.5s
G "23"
Fl G 2.5s
R 23ft 6 St M "26"
G "25"
Fl G 2.5s
R
OVHD PIPE
Cable Area
F R 66ft
Obstn rep 1981
PA
R "28"
Fl R 2.5s
OVHD PIPE
TANK
STACKS
Conveyor
TR 2 Vert Lts
Oc R F R
OVHD CAB
OVHD PWR CAB
CL 181 FT (REP)
Consumers
Energy
Boom
Dpls
OVHD PIPES
STACKS
OVHD CABS
TANK
STACK
Dams
OVHD CABS
Bldg
Crib
Foul
Ramp
2 Vert Lts F R
R
N "2"
Lt Ho
Ma
PA
TR F R
Houghton Ave
Hospital
PARK
Davenport
Clark
CHY
Hospital
SPIRE
FIXED BRIDGE
HOR CL 113 FT
VERT CL 20 FT
SPIRE
FIXED BRIDGE
HOR CL 107 FT
VERT CL 32 FT
Thompson Saginaw
Ball Screw Co
JR Heineman
& Sons Inc
Pipeline
Area
OVHD CABS
OJIBWAY ISLAND
BELL TR
Obstn
PARK
HOYT
PARK
Anderson
Water Park
Saginaw
Water Treatment
Plant
Frischkorn Beam Co
Division St
Gratiot Ave
FIXED BRIDGE
HOR CL 66 FT
Cass St
Mackinaw St
Williams St
Saginaw St
Lee St
Ave
Court St
Cleveland Ave
Hill St
Millbourn
Rentschler
Norwood
Hyatt
Central Michigan RR
R
N "8"
G
C "7"
(see tabulation)

Joins page 10



Joins page 13

Joins page 18

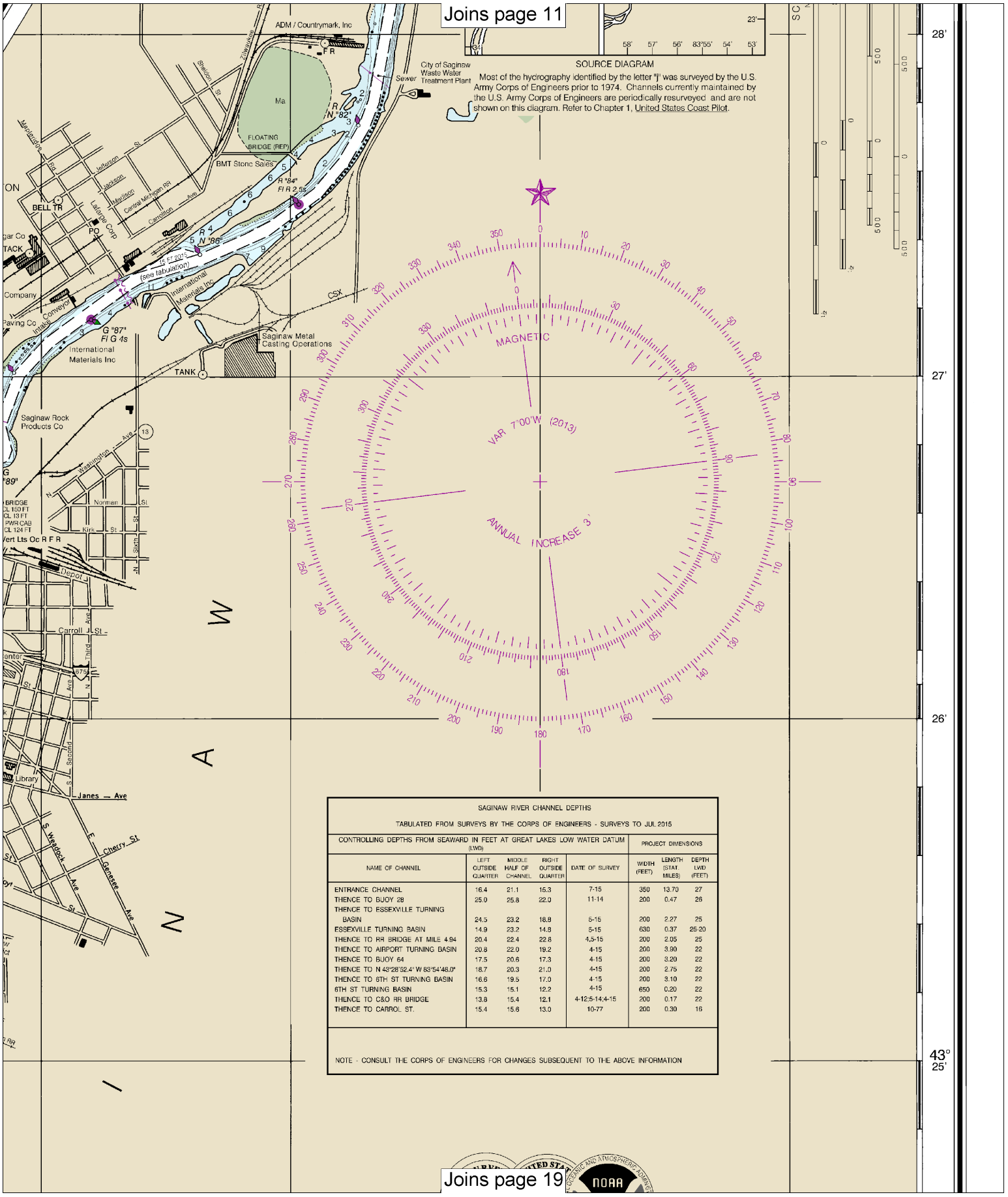
Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0 — 1 — 1 ½

Yards: 500 — 0 — 500 — 1000 — 1500 — 2000 — 2500

Joins page 11



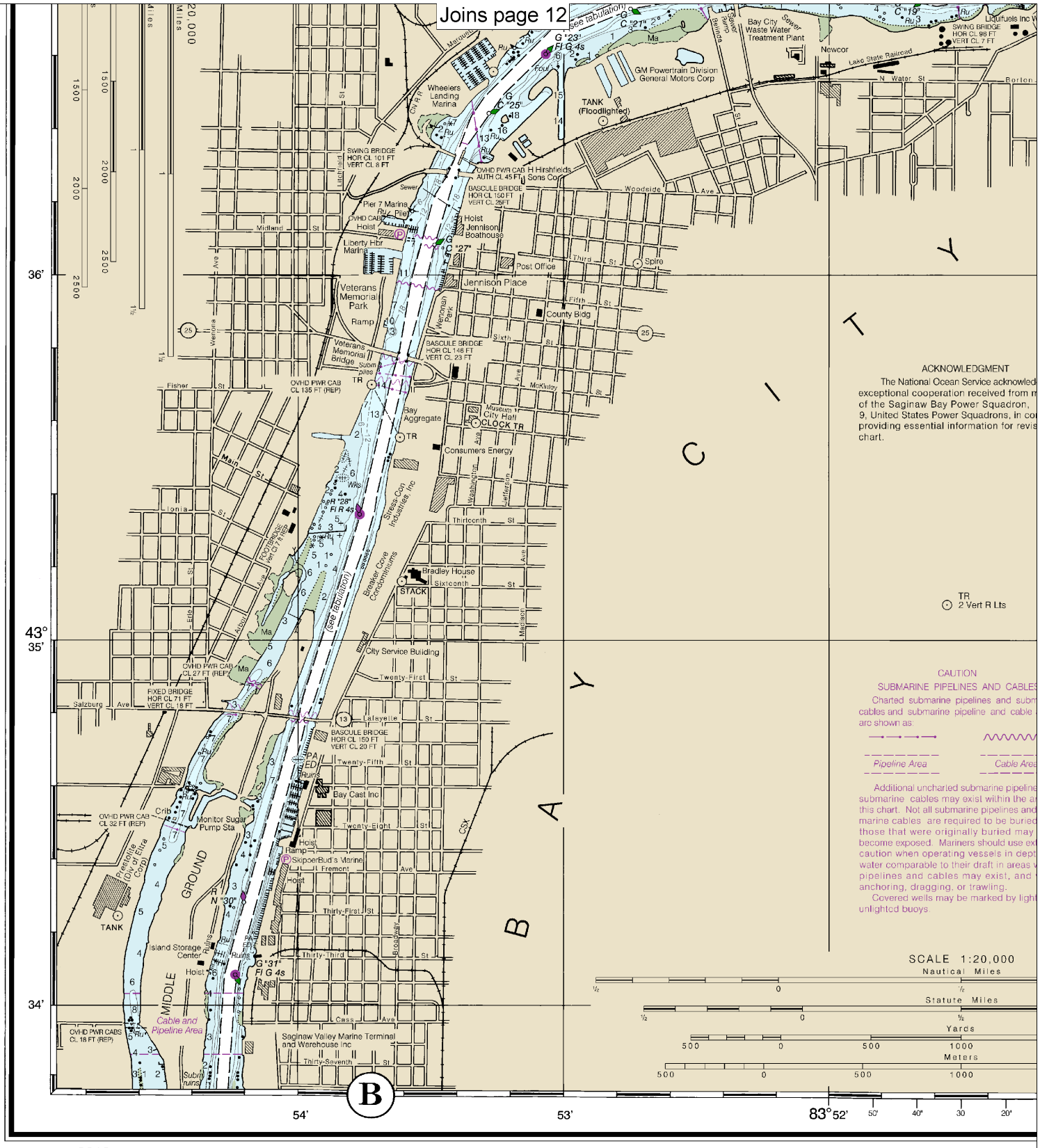
SAGINAW RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2015

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH LWD (FEET)
ENTRANCE CHANNEL	16.4	21.1	15.3	7-15	350	13.70	27
THENCE TO BUOY 28	25.0	25.8	22.0	11-14	200	0.47	26
THENCE TO ESSEXVILLE TURNING BASIN	24.5	23.2	18.8	5-15	200	2.27	25
ESSEXVILLE TURNING BASIN	14.9	23.2	14.8	5-15	630	0.37	25-20
THENCE TO RR BRIDGE AT MILE 4.94	20.4	22.4	22.8	4,5-15	200	2.05	25
THENCE TO AIRPORT TURNING BASIN	20.8	22.0	19.2	4-15	200	3.90	22
THENCE TO BUOY 64	17.5	20.6	17.3	4-15	200	3.20	22
THENCE TO N 43°28'52.4" W 83°54'48.0"	18.7	20.3	21.0	4-15	200	2.75	22
THENCE TO 6TH ST TURNING BASIN	16.6	19.5	17.0	4-15	200	3.10	22
6TH ST TURNING BASIN	15.3	15.1	12.2	4-15	650	0.20	22
THENCE TO C&O RR BRIDGE	13.8	15.4	12.1	4-12;5-14;4-15	200	0.17	22
THENCE TO CARROL ST.	15.4	15.6	13.0	10-77	200	0.30	16

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Joins page 19



27th Ed., Feb. / 2013

14867

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

SOUNDINGS I

Last Correction: 1/28/2016. Cleared through:
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

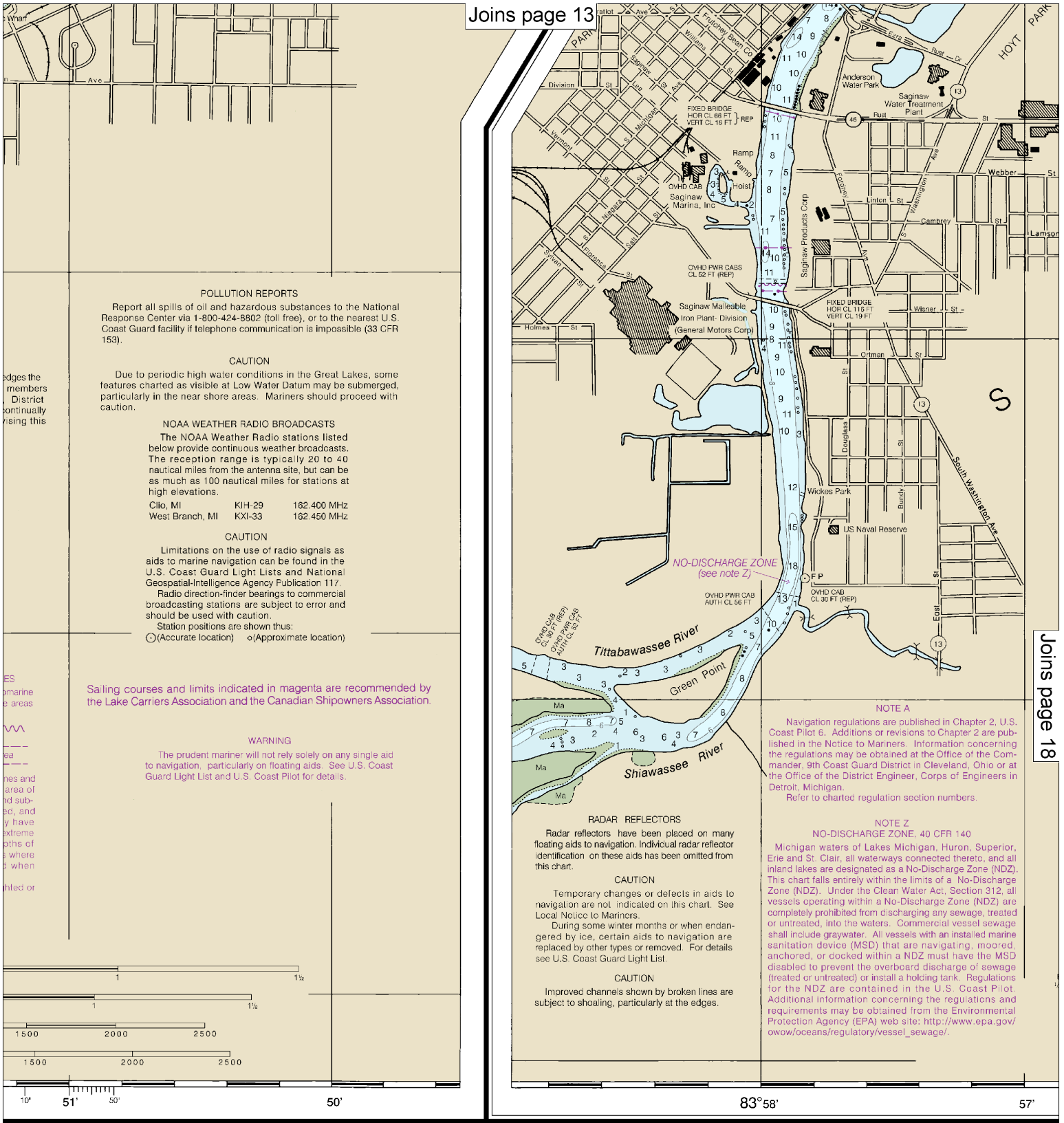
Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles: 0, 1, 1 ½

Yards: 500, 0, 500, 1000, 1500, 2000, 2500

Joins page 13



POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CAUTION

Due to periodic high water conditions in the Great Lakes, some features charted as visible at Low Water Datum may be submerged, particularly in the near shore areas. Mariners should proceed with caution.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Clio, MI	KIH-29	162.400 MHz
West Branch, MI	KXI-33	162.450 MHz

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) ○(Approximate location)

Sailing courses and limits indicated in magenta are recommended by the Lake Carriers Association and the Canadian Shipowners Association.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 9th Coast Guard District in Cleveland, Ohio or at the Office of the District Engineer, Corps of Engineers in Detroit, Michigan.

Refer to charted regulation section numbers.

NOTE Z
NO-DISCHARGE ZONE, 40 CFR 140

Michigan waters of Lakes Michigan, Huron, Superior, Erie and St. Clair, all waterways connected thereto, and all inland lakes are designated as a No-Discharge Zone (NDZ). This chart falls entirely within the limits of a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. Commercial vessel sewage shall include graywater. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

Joins page 18

IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Joins page 14

Joins page 17

POLLUTION REPORTS

il and hazardous substances to the National
800-424-8802 (toll free), or to the nearest U.S.
lephone communication is impossible (33 CFR

CAUTION

h water conditions in the Great Lakes, some
ible at Low Water Datum may be submerged,
shore areas. Mariners should proceed with

EATHER RADIO BROADCASTS

A Weather Radio stations listed
e continuous weather broadcasts.
ion range is typically 20 to 40
s from the antenna site, but can be
100 nautical miles for stations at
ons.

	KIH-29	162.400 MHz
, MI	KXI-33	162.450 MHz

CAUTION

s on the use of radio signals as
e navigation can be found in the
Guard Light Lists and National
telligence Agency Publication 117.
ction-finder bearings to commercial
stations are subject to error and
ed with caution.
sitions are shown thus:
n) o(Approximate location)

dicated in magenta are recommended by
and the Canadian Shipowners Association.

WARNING

iner will not rely solely on any single aid
particularly on floating aids. See U.S. Coast
list and U.S. Coast Pilot for details.

1½
1½
500
2500

50'

Gratiot Ave
PARK
Division St
Saginaw St
Lee St
Michigan Ave
Williams St
Jay Bean Co
Vermont St
Nagonee St
Sanilac St
St Florence St
St Ives St
Holmes St
FIXED BRIDGE
HOR CL 66 FT
VERT CL 18 FT
REP
Ramp
Hoist
OVHD CAB
Saginaw Marina, Inc
OVHD PWR CABS
CL 52 FT (REP)
Saginaw Malleable Iron Plant- Division (General Motors Corp)
Saginaw Products Corp
Anderson Water Park
Saginaw Water Treatment Plant
Rust St
Rust Dr
Earle Ave
HOYT PARK
S Jefferson Ave
Gansey St
Brighton St
Webber St
Linton St
Cambrey St
Hiland St
Lamson St
Prospect Ave
Washington Ave
Fordney St
FIXED BRIDGE
HOR CL 116 FT
VERT CL 19 FT
Wisner St
Ortman St
Douglass St
Wickes Park
Bundy St
US Naval Reserve
South Washington Ave
NO-DISCHARGE ZONE
(see note Z)
F P
OVHD CAB
CL 30 FT (REP)
OVHD PWR CAB
AUTH CL 56 FT
OVHD CAB
CL 30 FT (REP)
OVHD PWR CAB
AUTH CL 33 FT
East St
Tittabawassee River
Green Point
Shiawassee River
Ma

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 6. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 9th Coast Guard District in Cleveland, Ohio or at the Office of the District Engineer, Corps of Engineers in Detroit, Michigan.

Refer to charted regulation section numbers.

NOTE Z

NO-DISCHARGE ZONE, 40 CFR 140

Michigan waters of Lakes Michigan, Huron, Superior, Erie and St. Clair, all waterways connected thereto, and all inland lakes are designated as a No-Discharge Zone (NDZ). This chart falls entirely within the limits of a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. Commercial vessel sewage shall include graywater. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

HOR

The horizontal refe
American Datum of 1
purposes is considere
System of 1984 (WGS
to the North America
conversion to NAD 83

Mariners are warned that nume
some submerged, may exist in t
charted unless known to be perr

Additional information can b

LAKE MIC

JAN. FEB. MAR. APR. MAY

Elevation in feet
−5
−4
−3
+2
+1
0
-1
Low

Low Water Datum, w
levels shown on the abo
reference for the charte
or below Low Water Dat
pondingly greater or les

½ 0
½
500 0
500 0

83°58'

57'

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. ~~SCALE 1:20,000~~ See Note on page 5.

Nautical Miles
0 1 1½

Yards
500 0 500 1000 1500 2000 2500

Joins page 15

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GREAT LAKES

MICHIGAN

SAGINAW RIVER

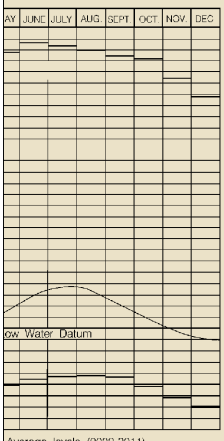
Polyconic Projection
Scale 1:20,000
North American Datum of 1983
(World Geodetic System of 1984)
SOUNDINGS IN FEET

ORIZONTAL DATUM
ference datum of this chart is North
1983 (NAD 83), which for charting
red equivalent to the World Geodetic
S 84). Geographic positions referred
can Datum of 1927 do not require
83 for plotting on this chart.

CAUTION
merous uncharted stakes and fishing structures,
the area of this chart. Such structures are not
rmanent.

be obtained at nauticalcharts.noaa.gov.

CHIGAN - HURON



Average levels (2002-2011)

Extreme Levels (period of record)
which is the plane of reference for the
ove hydrograph, is also the plane of
ted depths. If the lake level is above
atum, the existing depths are corres-
esser than the charted depths.

NOTES

PLANE OF REFERENCE OF THIS CHART (Low Water Datum) ..... 577.5 ft.
Referred to mean water level at Rimouski, Quebec, International Great Lakes Datum (1985).
SAILING DIRECTIONS. Bearings of sailing courses are true and distances given thereon are in statute miles between points of departure.
AIDS TO NAVIGATION. Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
SYMBOLS AND ABBREVIATIONS. For complete list of symbols and abbreviations see Chart No. 1.
BRIDGE AND OVERHEAD CABLE CLEARANCES. When the water surface is above Low Water Datum, bridge and overhead clearances are reduced correspondingly. For clearances see U.S. Coast Pilot 6.
AUTHORITIES. Hydrography and Topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

CAUTION
POTABLE WATER INTAKE (PWI)
Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Commissioner of Food and Drugs (21 CFR 1250.93). Consult U.S. Coast Pilot 6 for important supplemental information.

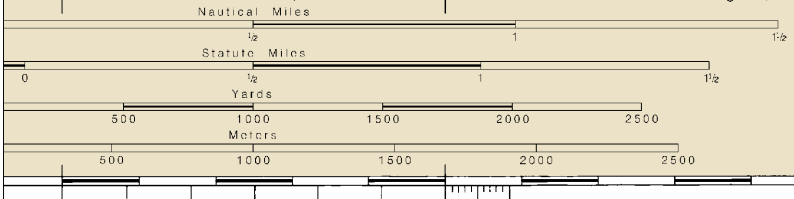
Ⓟ Pump-out facilities

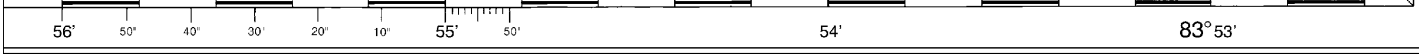
SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 6 for important supplemental information.

CAUTION
BASCULE BRIDGE CLEARANCES
For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

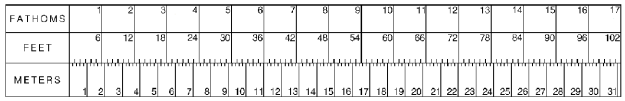
NOTE B
The channel legend reflects the Corps of Engineers project depth. The Corps of Engineers publishes the controlling depth periodically in the U.S. Coast Guard Local Notice to Mariners. For further information on channel depths, direct inquiries to Office of the District Engineer, Corps of Engineers, Detroit, Michigan.

SCALE 1:20,000





24'
23'
22'



Saginaw River
SOUNDINGS IN FEET - SCALE 1:20,000

14867

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

All Hazards NOAA Weather Radio NOAA's National Weather Service

NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.
http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information	—	**http://www.nauticalcharts.noaa.gov**
Interactive chart catalog	—	**http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml**
Report a chart discrepancy	—	**http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx**
Chart and chart related inquiries and comments	—	**http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs**
Chart updates (LNM and NM corrections)	—	**http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html**
Coast Pilot online	—	**http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm**
Tides and Currents	—	**http://tidesandcurrents.noaa.gov**
Marine Forecasts	—	**http://www.nws.noaa.gov/om/marine/home.htm**
National Data Buoy Center	—	**http://www.ndbc.noaa.gov/**
NowCoast web portal for coastal conditions	—	**http://www.nowcoast.noaa.gov/**
National Weather Service	—	**http://www.weather.gov/**
National Hurrican Center	—	**http://www.nhc.noaa.gov/**
Pacific Tsunami Warning Center	—	**http://ptwc.weather.gov/**
Contact Us	—	**http://www.nauticalcharts.noaa.gov/staff/contact.htm**

twitter —— For the latest news from Coast Survey, follow **@NOAAcharts**

This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey The Nation's Chartmaker